

HPLC Determination of Carvacrol on Primesep B Column



Separation type: Liquid Chromatography Mixed-mode

High Performance Liquid Chromatography (HPLC) Method for Analysis of Carvacrol

Carvacrol (5-Isopropyl-2-methylphenol) is the main component of the essential oils of the Lamiaceae family of plants. Thymol and carvacrol can also be applied as an alternative antimicrobial agent against antibiotic-resistant pathogenic bacteria. Carvacrol can be retained in HPLC using Primesep B column with a simple isocratic method using a mobile phase consisting of acetonitrile (MeCN), water and phosphoric acid buffer. The analysis method can be UV detected at 200 nm.

Method Parameters

| | |
|---------------------|---------------------------------------|
| Column | [Model] |
| Mobile Phase | MeCN/H ₂ O – 45/55% |
| Buffer | H ₃ PO ₄ – 0.1% |
| Flow Rate | 0.5 mL/min |
| Detection | 200 nm |

Quelle: <https://sielc.com/hplc-determination-ofcarvacrol>